MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786)315-2590 F (786) 31525-99
www.miamidade.gov/economy

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

GAF Materials Corporation
1361 Alps Road
Wayne, NJ 07470

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: GAF Liberty™ SBS Self-Adhering Modified Bitumen Roofing Systems Over Gypsum Decks

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 08-0911.01 and consists of pages 1 through 8.
The submitted documentation was reviewed by Jorge L. Acebo.

MIAMI-DADE COUNTY APPROVED

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Modified Bitumen
Deck Type:	Gypsum
Material:	APP/SBS
Maximum Design Pressure:	-147.5 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
Liberty™ SBS Self-Adhering Base/Ply Sheet	39.375" x 66'	ASTM D4601	Self-adhered, SBS modified, fiberglass reinforced membrane for base or ply sheet applications.
Weather Watch® XT	66.7 x 36	ASTM D1970	SBS modified self-adhering fiberglass mat for base/ply sheet applications.
Ruberoid® SBS Heat-Weld™ Granule	39.37" (1 meter) wide	ASTM D6164	Non-Woven Polyester mat coated with polymer modified asphalt and surfaced with mineral granules.
Ruberoid® SBS Heat-Weld™ Smooth	39.37" (1 meter) wide	ASTM D6164	Non-Woven Polyester mat coated with polymer modified asphalt and smooth surfaced.
Ruberoid® SBS Heat-Weld™ 170 FR	39.37" (1 meter) wide	ASTM D6164	Non-Woven Polyester mat coated with fire retardant polymer modified asphalt and surfaced with mineral granules.
Ruberoid® SBS Heat-Weld™ Plus	1 meter (39.37") wide	ASTM D6164	Non-Woven Polyester mat coated with polymer modified asphalt and surfaced with mineral granules.
Ruberoid® SBS Heat-Weld™ Plus FR	39.37" (1 meter) wide	ASTM D6164	Non-Woven Polyester mat coated with fire retardant polymer modified asphalt and surfaced with mineral granules.
Ruberoid® EnergyCap™ SBS Heat-Weld™ Plus FR	39.37" (1 meter) wide	ASTM D-6164	Non-woven polyester mat coated with fire retardant polymer modified asphalt and surfaced with mineral granules with factory applied EnergyCote™.
Ruberoid® Torch Smooth	39.37" (1 meter) Wide	ASTM D6222	Non-Woven Polyester mat coated with APP modified asphalt and smooth surfaced.
Tri-Ply® TP-4	39.37" (1 meter) Wide	ASTM D 6222	Non-Woven Polyester mat coated with APP modified asphalt and smooth surfaced.

Product	Dimensions	Test Specification	Product Description
Ruberoid® Torch Granule	39.37" (1 meter) Wide	ASTM D6222	Non-Woven Polyester mat coated with APP modified asphalt and surfaced with mineral granules.
Ruberoid® Torch 180	39.37" (1 meter) Wide	ASTM D6222	Non-Woven Polyester mat coated with APP modified asphalt and surfaced with mineral granules
RoofMatch™ APP Modified Granular	107 sq. ft. (9.9 m2)	ASTM D6222	Non-woven polyester mat coated with polymer modified asphalt and surfaced with colored mineral granules.
Tri-Ply® TP-4G	39.37" (1 meter) Wide	ASTM D 6222	Non-Woven Polyester mat coated with APP modified asphalt and surfaced with mineral granules.
Ruberoid® Torch FR	39.37" (1 meter) Wide	ASTM D6222	Non-Woven polyester mat coated with fire retardant asphalt modified bitumen membrane, granule surface.
Ruberoid® EnergyCap™ Torch Granule FR	39.37" (1 meter) wide	ASTM D6222	A fire retarding, modified bitumen, non-woven polyester mat surfaced with mineral granules with factory applied EnergyCote™.
Ruberoid® EnergyCap™ Torch Plus FR	39.37" (1 meter) wide	ASTM D6222	A fire retarding, modified bitumen, non-woven polyester mat surfaced with mineral granules with factory applied EnergyCote™.
Tri-Ply® Mineral Surfaced Cap Sheet	39.37" (1 meter) wide	ASTM D 3909	Asphalt coated, glass fiber mat cap sheet surfaced with mineral granules.
GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet	39.37" (1 meter) Wide	ASTM D 3909	Asphalt coated, glass fiber mat cap sheet surfaced with mineral granules with factory applied EnergyCote™.
GAFGLAS® Mineral Surfaced Cap Sheet	39.37" (1 meter) Wide	ASTM D 3909	Asphalt coated, glass fiber mat cap sheet surfaced with mineral granules.
Matrix™ 303 Premium Fibered Aluminum Roof Coating	1, 5 gallons	Proprietary	Fibered aluminum coating.
Topcoat® Elastomeric Roof Membrane	1, 5, 55 gallons	ASTM D6083	An acrylic, water based elastomeric membrane system used to protect various types of roofing surfaces.
Topcoat® Surface Seal SB	5, 55 gallons	ASTM D-6083	Solvent-based, sprayable thermoplastic rubber sealant used to protect and restore age roof surfaces and to increase a roof's reflectivity.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
EnergyGuard™ Polyiso Insulation	Polyisocyanurate foam insulation	GAF Materials Corp.
EnergyGuard™ RH Polyiso Insulation	Polyisocyanurate foam insulation	GAF Materials Corp.
EnergyGuard™ RN Polyiso Insulation	Polyisocyanurate foam insulation	GAF Materials Corp.
Securock® Gypsum-Fiber Roof Board	Gypsum roof board.	US Gypsum Corp.

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	N/A	N/A	N/A	N/A

APPROVED SURFACING/COATING OPTIONS:

TABLE 4

System Number	Application

Surfacing is Optional on granular surfaced membranes but required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions.

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet, GAFGLAS® EnergyCap™ BUR Mineral Surfaced Capsheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Matrix™ 303 Premium Fibered Aluminum Roof Coating, at 1.5 gal./sq.
4. Topcoat® Elastomeric Roofing Membrane or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.

EVIDENCE SUBMITTED:

Test Agency/Identifier	Name	Report	Date
FM Approvals	4470	3024805	11/20/06
	4470	3044688	03/16/12
	4470	3036980	08/14/09
	4470	3031350	09/27/07
	4470	3041769	09/27/12
Trinity | ERD	ASTM D6164	#G6850.08.08	08/29/08
	ASTM D6222	G6850.11.08	02/17/09
	ASTM D6222	G6850.10.08	10/06/08
	ASTM D3909	G6850.08.07-1	08/13/07
	ASTM D3909	G30250.02.10-3	02/15/10
	ASTM D6862	C8500SC.11.07	11/30/07
	ASTM D6222	G40620.07.12-2	07/17/12
	ASTM D3909	G30250.02.10-3-R1	11/26/12
	ASTM D6222	G40620.07.12-2	7/17/12
Exterior Research & Design, LLC	TAS 114-F,G,I	01501.04.03	04/03/03
	ASTM D 5147	18034.03.03-2	04/23/03
Atlantic & Caribbean Roof Consulting, LLC	TAS 114-D	11-043	08/08/11
	TAS 114-D	11-046	08/09/11
PRI Construction Materials Technologies	ASTM D1970	GAF 256-02-01	05/21/12
	ASTM D6083	GAF 082-02-01	05/07/06
Momentum Technologies Inc.	ASTM D6083	EX14A3A	03/20/03

APPROVED ASSEMBLIES:

Membrane Type: SBS, Self-Adhered

Deck Type 6: Gypsum, Insulated

Deck Description: Gypsum concrete

System Type A(1): Insulation adhered to the deck, base sheet adhered to insulation.

All General and System Limitations shall apply.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation Minimum 1″ thick	**N/A**	**N/A**

Note: Insulation adhered to deck with OlyBond 500® or OlyBond 500® Green in 1" wide ribbons spaced 12" apart. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more plies of Liberty™ SBS Self-Adhering Base/Ply Sheet or Weather Watch® XT self-adhered to insulation.

Cap Sheet: One or more plies Ruberoid® SBS Heat-Weld™ 170 FR, Ruberoid® SBS Heat-Weld™ Smooth, Ruberoid® SBS Heat-Weld™ Granule, Ruberoid® SBS Heat-Weld™ Plus, Ruberoid® SBS Heat-Weld™ Plus FR, Ruberoid® EnergyCap SBS Heat-Weld™ Plus FR is heat welded to the self-adhering base/ply sheet according to manufacturer's application instructions.
OR
One or more plies of Ruberoid® Torch Smooth, Tri-Ply® TP-4, Ruberoid® Torch Granule, Ruberoid® Torch 180, RoofMatch™ APP Modified Granular, Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Granule FR or Ruberoid® EnergyCap™ Torch Plus FR torch applied according to the self-adhering base/ply sheet manufacturer's application instructions.

Surfacing: (Optional)
Apply any surfacing/coating option listed in Table 4.

Note: Surfacing is Optional on granular surfaced membranes but required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions.

Maximum Design Pressure: -147.5 psf (See General Limitation #9)

Membrane Type: SBS, Self-Adhered

Deck Type 6: Gypsum, Insulated

Deck Description: Gypsum concrete

System Type A(2): Insulation adhered to the deck, base sheet adhered to insulation.

All General and System Limitations shall apply.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation Minimum 1″ thick	N/A	N/A

Note: Base Layer Insulation adhered to deck with OlyBond 500® or OlyBond 500® Green in 1" wide ribbons spaced 12" apart. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Securock® Gypsum-Fiber Roof Board Minimum 1/4″ thick	N/A	N/A

Note: Top Layer Insulation adhered to Base Layer with OlyBond 500® or OlyBond 500® Green in 1" wide ribbons spaced 12" apart. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more plies of Liberty™ SBS Self-Adhering Base/Ply Sheet or WeatherWatch® XT self-adhered to the top layer of insulation.

Cap Sheet: One or more plies Ruberoid® SBS Heat-Weld™ 170 FR, Ruberoid® SBS Heat-Weld™ Smooth, Ruberoid® SBS Heat-Weld™ Granule, Ruberoid® SBS Heat-Weld™ Plus, Ruberoid® SBS Heat-Weld™ Plus FR, Ruberoid® EnergyCap SBS Heat-Weld™ Plus FR is heat welded to the self-adhering base/ply sheet according to manufacturer's application instructions.
OR
One or more plies of Ruberoid® Torch Smooth, Tri-Ply® TP-4, Ruberoid® Torch Granule, Ruberoid® Torch 180, RoofMatch™ APP Modified Granular, Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Granule FR or Ruberoid® EnergyCap™ Torch Plus FR torch applied to the self-adhering base/ply sheet according to manufacturer's application instructions.

Surfacing: (Optional)
Apply any surfacing/coating option listed in Table 4.

Note: Surfacing is Optional on granular surfaced membranes but required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions.

Maximum Design Pressure: -105 psf (See General Limitation #9)

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE